

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number
WO 2005/071349 A1

(51) International Patent Classification⁷: F42D 1/20, 3/04

(21) International Application Number:

PCT/ZA2005/000005

(22) International Filing Date: 19 January 2005 (19.01.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

2004/0552

26 January 2004 (26.01.2004)

ZA

(71) Applicant (for all designated States except US): **NXCO INTERNATIONAL LIMITED** [BS/BS]; c/o Saffrey Square, Suite 205, Bank Lane, Nassau, Bahamas, --- (BS).

(72) Inventor; and

(75) Inventor/Applicant (for US only): **TOTA, Edward, Walenty** [AU/ZA]; of 21 Magnetic Square, Mandurah, Western Australia 6210 (AU).

(74) Agents: **McCALLUM, RADEMEYER & FREIMOND** et al.; PO Box 1130, Maclyn House, 7 June Avenue, 2125 Bordeaux (ZA).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

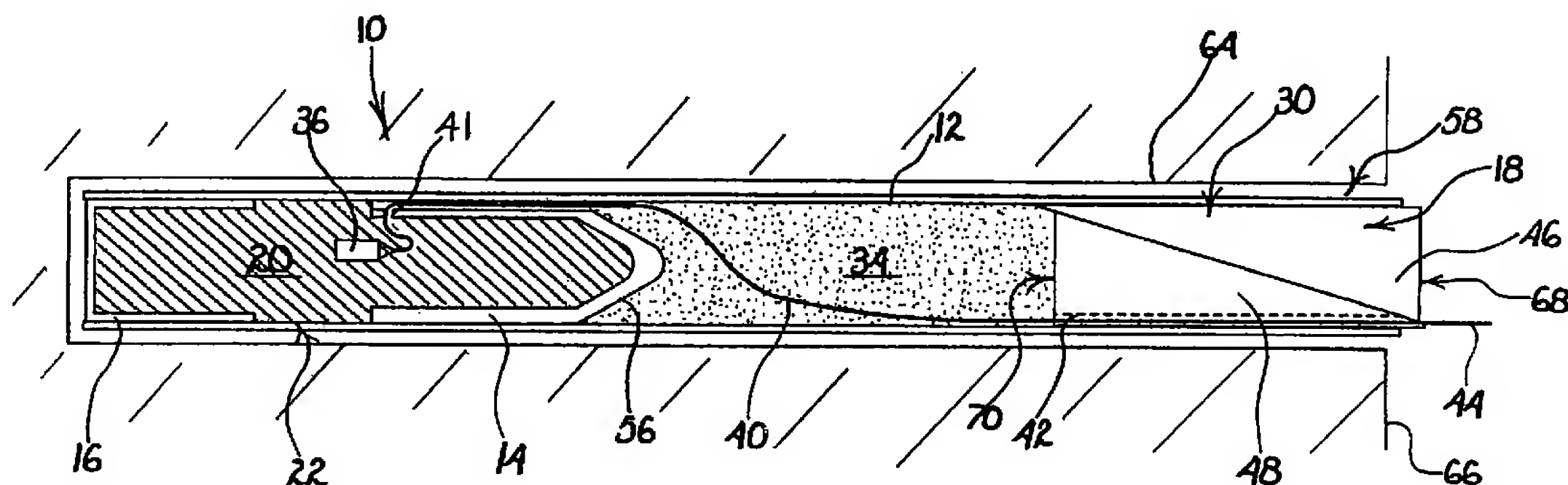
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ROCK BREAKING CARTRIDGE AND USE THEREOF



(57) Abstract: A rock breaking cartridge (10) which includes a tubular body (12), spaced inner and outer second caps (14 and 16) inside the tubular body (12), a propellant (20) inside the tubular body (12) between the caps (14 and 16), a radially expandable stemming device (30) inside the tubular body (12) spaced from the inner cap (14), and a filler (34) between the inner cap (14) and the stemming device (30).

WO 2005/071349 A1